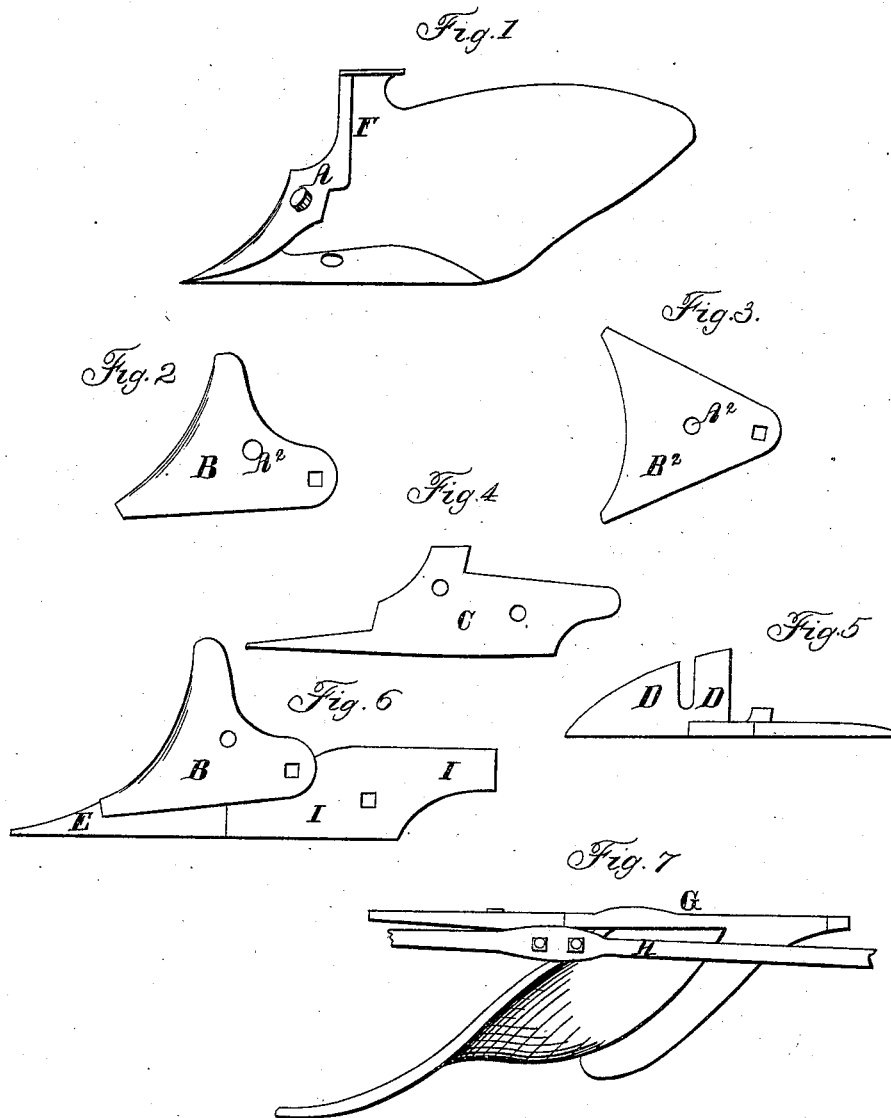


J. DEATS.

Plow.

No. 327.

Patented July 31, 1837.



UNITED STATES PATENT OFFICE.

JOHN DEATS, OF ROCKSBURG, NEW JERSEY.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 327, dated July 31, 1837.

To all whom it may concern:

Be it known that I, JOHN DEATS, of Rocksburg, in the county of Warren and State of New Jersey, have made certain new and useful Improvements in Plows; and I do hereby declare that the following is a full and exact description thereof.

The principal improvements in this plow are the result of the form of the respective parts, which, when put together, constitute an instrument of great strength and consequent durability, and admitting also of the renewing of those parts most liable to wear, while a portion of it is but little subject to deterioration.

The mold-board is so formed that it may be cast in a common flask without the use of a core of any kind.

Figure 1 in the drawings represents the inside of the piece constituting the mold-board, on the front edge of which there is a tenon or round pin, A, which pin or tenon is received into and fills a corresponding hole, A², in the cutter B, Fig. 2. The cutter may be made in the form shown at B², Fig. 3, in which case it is reversible, the two sides being alike, and consequently by reversing—that is, by turning the outer side inward—what was the upper edge may become the lower whenever the wearing renders this change desirable.

To fasten the several parts of my plow together I use a piece which may be denominated the “false” or “inner” landside, as it is entirely covered by the cutter, and by the other portions of the landside, to be presently described, constituting the true landside. A portion of the sole or under side of the plow also is formed by a part of the casting constituting this false or inner landside.

C, Fig. 4, shows a side view of the false landside, and Fig. 5 a top view, the part marked D forming a portion of the sole, and serving, on its under side, to receive the heads of the bolts by which the parts are held together and attached to the beam.

Fig. 6 represents the landside when com-

plete, B being the cutter; I I, the back end of the landside, consisting of a reversible casting, the top and bottom edges of this casting being formed alike, so that when one edge is worn off the other may be turned down and fixed by a screw-bolt. The part marked E, the front end of which constitutes the point, is the hind part of the share, which may be either of cast or of wrought iron, and passes under the mold-board, between it and the part D of the false landside, a bolt passing through both these and through the mold-board. Another bolt passes through them and up on the inside of the mold-board, along the groove F, and through the beam, attaching the whole firmly together.

In wooding or mounting this plow the beam is permanently fixed, so as to cross above the mold-board toward its middle, or so as to leave about half of the weight toward the landside, the beam thus forming a considerable angle with the landside, as shown in the top view, Fig. 7, where G is the landside and H the beam.

What I claim as constituting my invention is—

1. The manner of forming the pattern of the mold-board so as to cast it to deliver from a single flask, with a tenon or pin cast near its front edge, in the manner and for the purpose described.
2. The manner of constructing and using the casting which I have denominated the “inner” or “false” landside, for attaching and connecting the various parts which are appended to it.
3. The particular manner of forming the reversible plate of cast-iron constituting the back end of the landside.
4. The placing the beam of the plow in the manner set forth.

JOHN DEATS.

Witnesses:

JOSEPH BERKETT,
JOHN YOUNG.